SIEMENS

Quick Start Guide

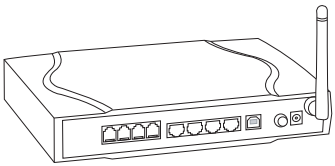
SIEMENS SLI-5300-I Wireless IAD Router

- Do never open the housing!
- Use only the power supply provided with this device.
- Use only the cables provided with this device and do not perform any modifications on them.

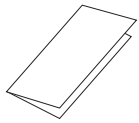
06-20080428

Before you begin

Verify that the following items came with your SIEMENS SLI-5300-I Wireless IAD Router kit:

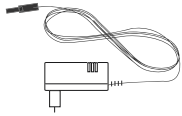


SIEMENS SLI-5300-I



Quick Start Guide

CD-ROM



Power supply

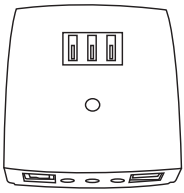
USB cable
(blue)

ADSL cable
(gray)

Ethernet cable
(yellow)

Phone cable
(black)

Optional:
If your service provider include an ISDN ADSL-Splitter, follow the instructions in section “Step 1: Install the ISDN ADSL-Splitter”. If you need further assistance installing the filter, please contact your service provider.



ISDN ADSL-Splitter

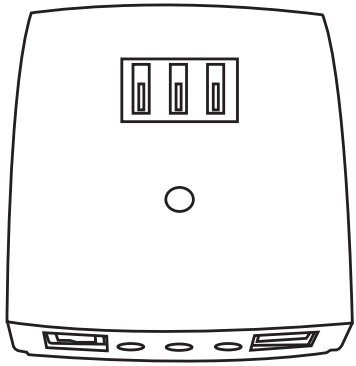
System Requirements

Before starting the installation of the ADSL WLAN Router, make sure your computer is equipped with:

- LAN interface (Ethernet) with RJ45 socket
  (Windows 98, ME, NT4, 2000, XP, Vista, Mac OS 9.x, 10.x).

Step 1:
Install the ISDN ADSL Splitter

The ADSL technology uses the existing telephone line for the broadband entrance. With the ISDN installation a ISDN ADSL-Splitter must be installed to separate the frequency ranges of ADSL and ISDN and to prevent disturbances at ISDN phones or fax machines. Use for installation the provided ISDN ADSL-Splitter.



ISDN ADSL-Splitter

Important note:

- With an ISDN installation only one ISDN ADSL-Splitter is needed for the entire ISDN installation.
- For Phones or fax machines with ADSL and ISDN there is no Line-Filter needed.
- Please contact your support-technician if your ISDN-NT (ISDN Networkterminator) is not equipped with a plugged incoming line.

Step 2:
Connection of the Wireless IAD Router

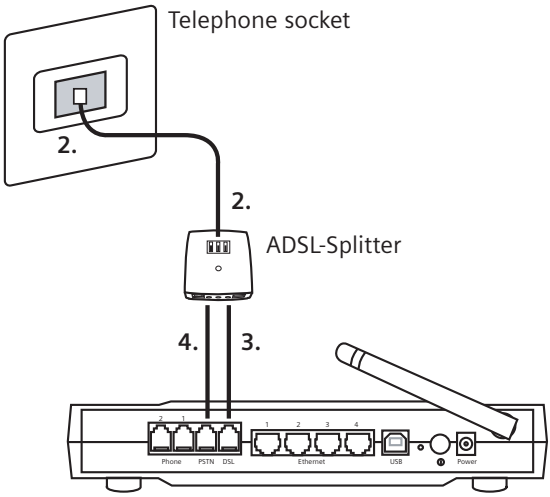
Step 2a: Connecting the IAD Router to the exchange connection

1. Remove the plug on the telephone or the fax machine from the telephone socket.

2. Insert the ADSL-Splitter into the telephone socket. Plug the plug of the ADSL-Splitter cable (enclosed, mostly black) into the “Phone” (F) plug of the telephone socket and the other plug into the “Line” (Amt) plug of the ADSL-Splitter.

3. Set up the connection between the ADSL-Splitter and the ADSL IAD Router. To do this, insert the end of the ADSL cable (gray) into the socket of the ADSL-Splitter with the "DSL" (Modem) symbol.
Insert the other end of the ADSL cable (gray) into the socket on your ADSL IAD Router marked "DSL".

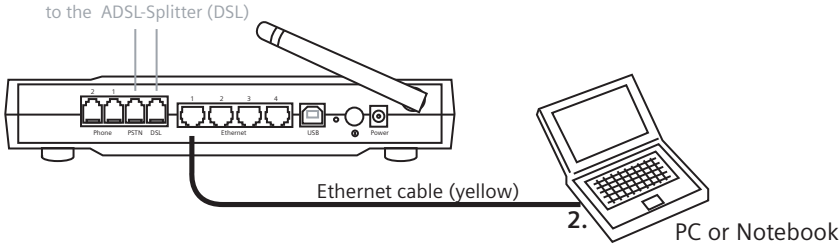
4. Then remove the cable from your telephone. Insert one end of the telephone cable supplied (black) into the socket of the ADSL-Splitter, and the other end into the socket on your ADSL IAD Router marked "PSTN". This connection ensures that even if the DSL link fails (so that you are without VoIP functionality) you can still make calls.
Take the phone cable (black) connecting the telphone to the ADSL IAD Router, follow the instructions in section “Step 2c”.



SIEMENS SLI-5300-I Wireless IAD Router

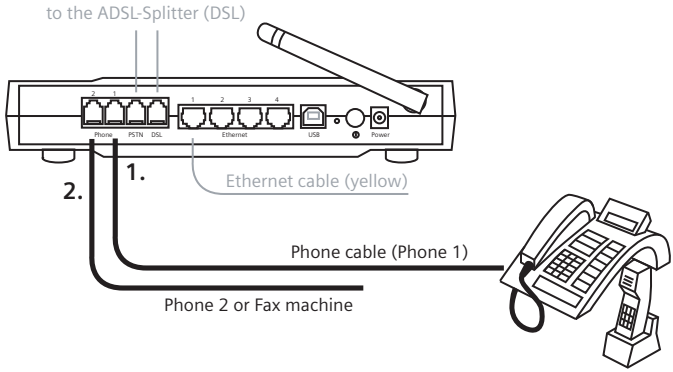
Step 2b: Connecting the Wireless IAD Router to your computer

1. Connect the Ethernet cable (yellow) to a free LAN interface on your Wireless IAD Router.
2. Connect the other end of the Ethernet cable to the LAN interface of your computer.



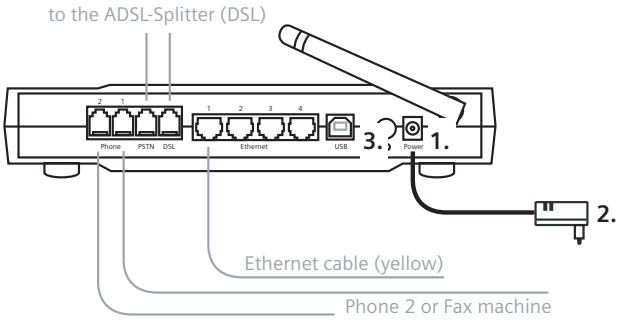
Step 2c: Connecting the telephone/fax machine to your Wireless IAD Router

1. Insert the telephone cable into the socket on the back of the device marked "Phone 1".
2. If desired, insert the cable of a second telephone or a fax machine into the socket on the back of the device marked "Phone2".



Step 2d:
Connecting the mains unit for the power supply and switching on the Wireless IAD Router

1. Connect the plug on the power cable to the Wireless IAD Router's power supply socket.
2. Insert the other end of the cable into a convenient mains socket.
3. Switch on the Wireless IAD Router using the switch on the back of the device.
   After a brief powering-up period, the device's operational readiness is indicated by the power LED (green) and the DSL LED (green) lighting up.



Step 3:
USB driver installation

The USB driver is only working on the following operating system (OS):
Windows 98, Windows 98SE, Windows ME, Windows 2000 and Windows XP.

If your computer is NOT equipped with an Ehternet interface you have to install first the USB driver in order to be able to configure your Wireless IAD Router. For the USB driver installation proceed as follows:

Windows 98 users need the Windows 98 CD-ROM to complete the installation.

1. Insert the SIEMENS installation CD-ROM in your CD-ROM drive.
   The CD will be startet automatically.

In case the "setup wizard" does not start automatically, open a **Run** window via **Start --> Run** and enter the path x:\USB_Driver\windows\setup.exe, where **x** represents the drive letter of the CD drive.

2. Click on **Run** or **Setup.**
3. Connect the USB cable to your Wireless IAD Router. The driver will be installed automatically.

Note for Windows 98 users: If prompted, you need to insert the Windows 98 CD-ROM in your CD-ROM drive to complete the installation.

4. You will be asked whether the PC should be restarted. Click on **Close**.
5. Click on **Finish**.

Step 4:
Configure the PC (TCP/IP settings)
Introduction

In step 4, you will learn how to configure your computer to communicate with the Wireless IAD Router.

To do this, you will need to configure your PC's network settings to **obtain an IP address automatically**. Computers use IP addresses to communicate with each other across a network or the Internet.

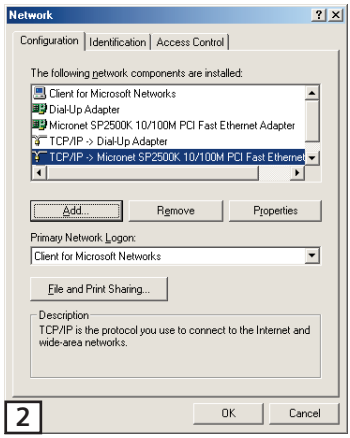
Find out which operating system your computer is running, such as Windows 98, Windows Me, Windows NT4, Windows 2000, Windows XP, Windows Vista or Macintosh OS 9.x, 10.x.
You will need to know which operating system your computer is running. You can find out by clicking on **Start** -> **Settings**. (If your Start menu doesn't have a Settings option, you are running Windows XP or Windows Vista. You can select the Control Panel directly from the Start menu.) Then, click on **Control Panel** and double-click on the **System** icon.
Click the **Cancel** button when done.

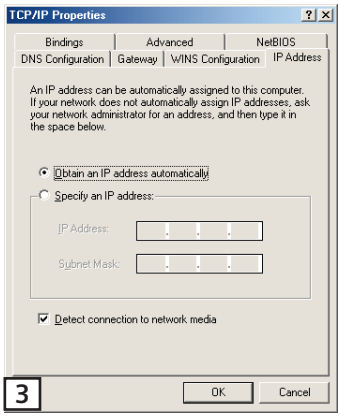
Once you know which operating system you are running, follow the directions in this step for your computer's operating system.

Step 4a:
Configure the PC (TCP/IP settings) for Windows 98 and Windows ME

Windows 98 users need the Windows 98 Installation CD to complete the installation.

1. Click on **Start** -> **Settings** -> **Control Panel**. Double-click on the **Network** icon to open the Network screen.
2. Select the **Configuration** tab and highlight the **TCP/IP line** for the applicable Ethernet adapter[1]. If the word TCP/IP appears by itself, select that line[2]. Click on **Properties**.
3. Click the **IP Address** tab and select **Obtain an IP address automatically**.
4. Click on the **Gateway** tab and verify that the **Installed Gateway** field is blank. Click on **OK**.
5. Click again on **OK**. Windows may ask you for the original Windows Installation disk or additional files. Supply them by pointing to the correct location, e.g. D:\win98, where "D" represents the letter of your CD-ROM drive.
6. If Windows asks you to restart your PC, click on **Yes**. If Windows does not ask, restart your computer anyway.



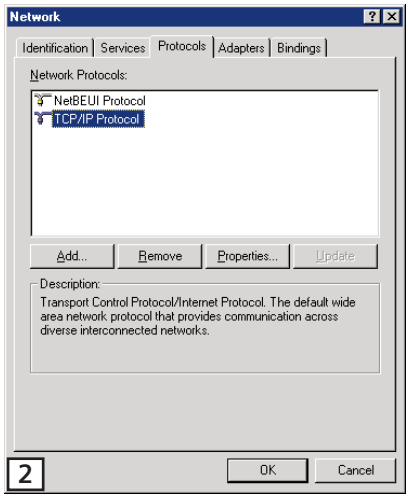


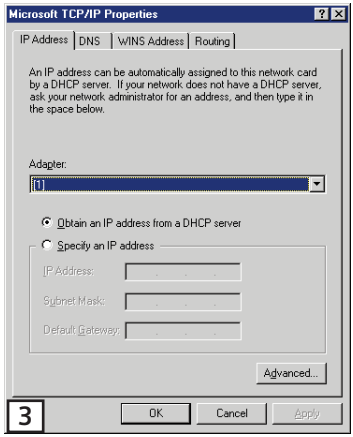
[1] Choose a TCP/IP entry whose name contains **Ethernet adapter**. Do not choose a TCP/IP entry whose name is PPPoE, VPN or other.

[2] If there is no TCP/IP line listed, refer to the User Manual on your Aethra CD-ROM to install TCP/IP now.

Step 4b:
Configure the PC (TCP/IP settings) for Windows NT4

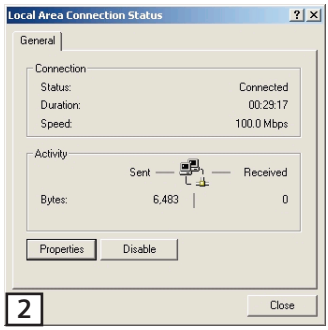
1. Click on **Start** -> **Settings** -> **Control Panel**. Double-click on the **Network** icon. The Network screen will appear.
2. Select the **Protocol** tab and highlight the **TCP/IP line**. Click on **Properties**.
3. Select the **IP Address** tab and select **Obtain an IP address from a DHCP server** and click on **OK** on the subsequent screens to complete the PC's configuration.
4. When prompted with "Activate DHCP" dialog box, click **Yes**.
5. Restart your computer.

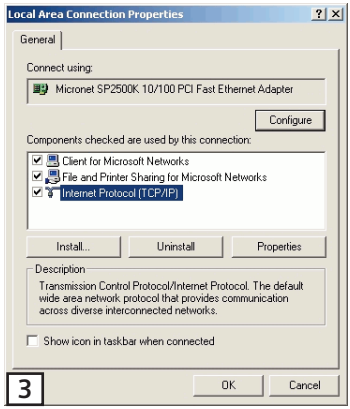


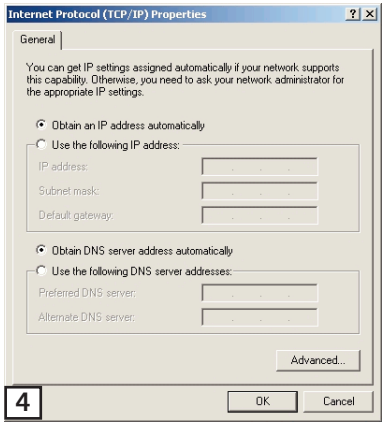

Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
[1]
Obtain an IP address from a DHCP server
Specify an IP address
IP Address:
Subnet Mask:
Default Gateway:
Advanced...
OK
Cancel
Apply
3

Step 4c:
Configure the PC (TCP/IP settings) for Windows 2000

1. Click on **Start** -> **Settings** -> **Control Panel**. Double-click on the **Network and Dial-up Connections** icon. The Network screen will appear.
2. Select the **Local Area Connection** icon for the applicable Ethernet adapter (usually it is the first Local Area Connection listed). Double-click on **Local Area Connection** and click on **Properties**.
3. Select **Internet Protocol (TCP/IP)** and click on **Properties**.
4. Select **Obtain an IP address automatically** and click on **OK** on the subsequent screens to complete the PC's configuration.
5. Restart your computer.



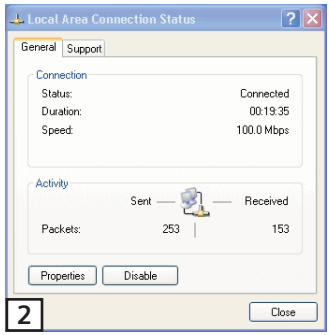


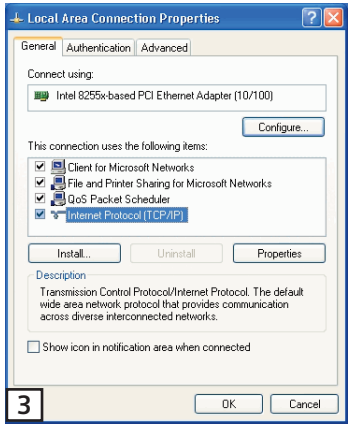

Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel
4

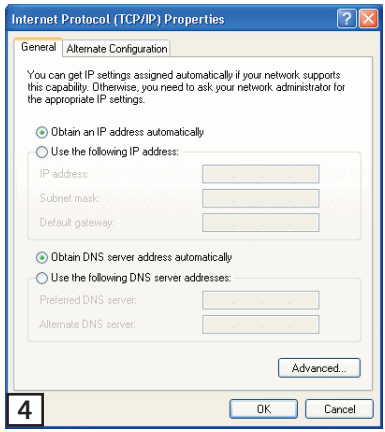
Step 4d:
Configure the PC (TCP/IP settings) for Windows XP

The following instructions assume you are running Windows XP's default interface. If you are using the Classical interface (where the icons and menus look like previous Windows versions), please follow the instructions for Windows 2000 (Step 4c).

1. Click on **start** -> **Control Panel**. Click on the **Network and Internet Connections** icon. Click on the **Network Connections** icon. The Network screen will appear.
2. Select the **Local Area Connection** icon for the applicable Ethernet adapter (usually it is the first Local Area Connection listed). Double-click on **Local Area Connection** and click on **Properties**.
3. Select **Internet Protocol (TCP/IP)** and click on **Properties**.
4. Select **Obtain an IP address automatically** and click on **OK** on the subsequent screens to complete the PC's configuration.
5. Restart your computer.

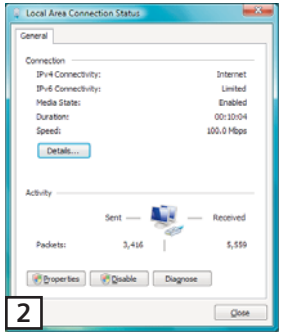


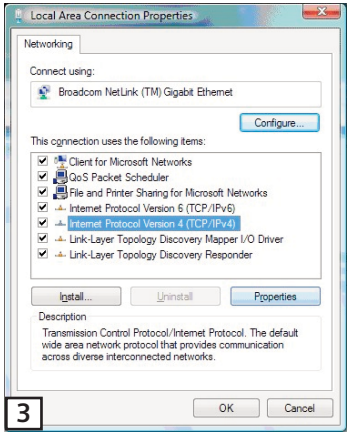


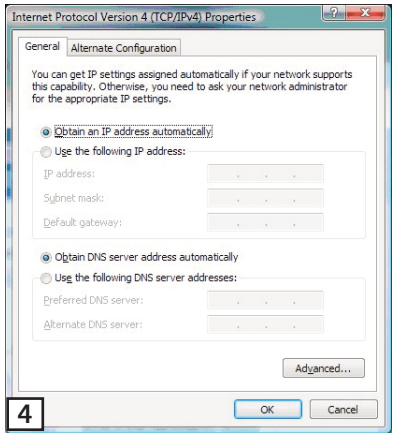

Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel
4

Step 4e:
Configure the PC (TCP/IP settings) for Windows Vista

1. Click on **start** -> **Control Panel**. Click on the **Network and Sharing Center** icon. Click on **Broadband Connections** → **Properties**.
2. The "Local Area Connection Status" screen will appear. Click on the **Properties** button.
3. Select **Internet Protocol Version 4 (TCP/IPv4)** and click on **Properties**.
4. Select **Obtain an IP address automatically** and click on **OK** to complete the PC's configuration.
5. Click on the **OK** to finish the configuration.





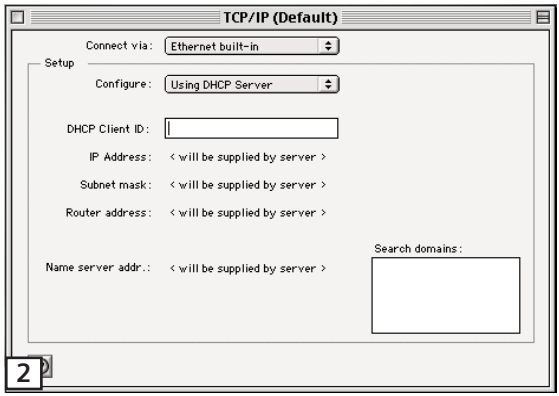

Internet Protocol Version 4 (TCP/IPv4) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel
4

Step 4f:
Configure the PC (TCP/IP settings) for Mac OS 9.x

1. From the Apple Menu, point to **Control Panels** and then click **TCP/IP**.

2. From the **Connect via** pull-down menu select **Ethernet built-in**. From the **Configure** pull-down menuselect **Using DHCP Server**.

3. Close the **TPC/IP** window and click on [**Save**].



Step 4g:
Configure the PC (TCP/IP settings) for Mac OS X

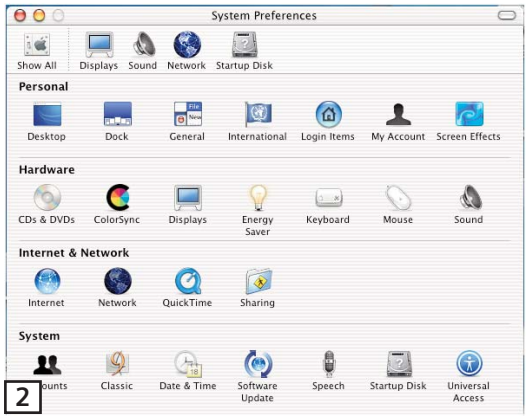
1. From the **Apple Menu**, select **System Preferences...**

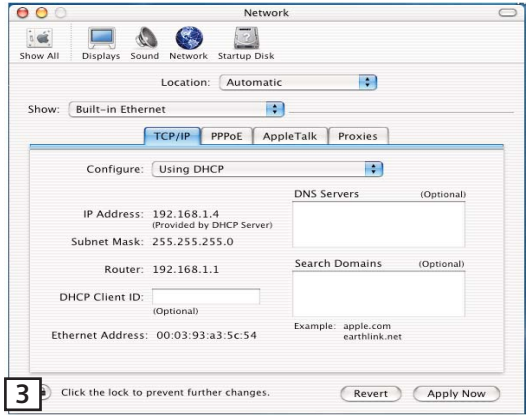
2. Click on the **Network** icon in the **Internet & Network** area.

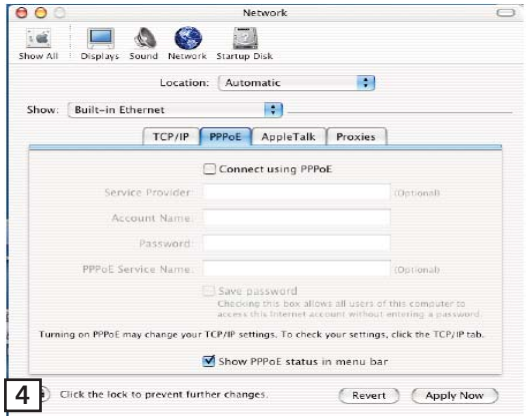
3. From the **Show** pull-down select **Built-in Ethernet**. On the **TCP/IP** tab, select **Using DHCP** from the **Configure** pull-down menu.

4. On the **PPPoE** tab, make sure that the **Connect using PPPoE** check box is **NOT** activated. Click **Apply Now**.

5. Close the **Network** window.

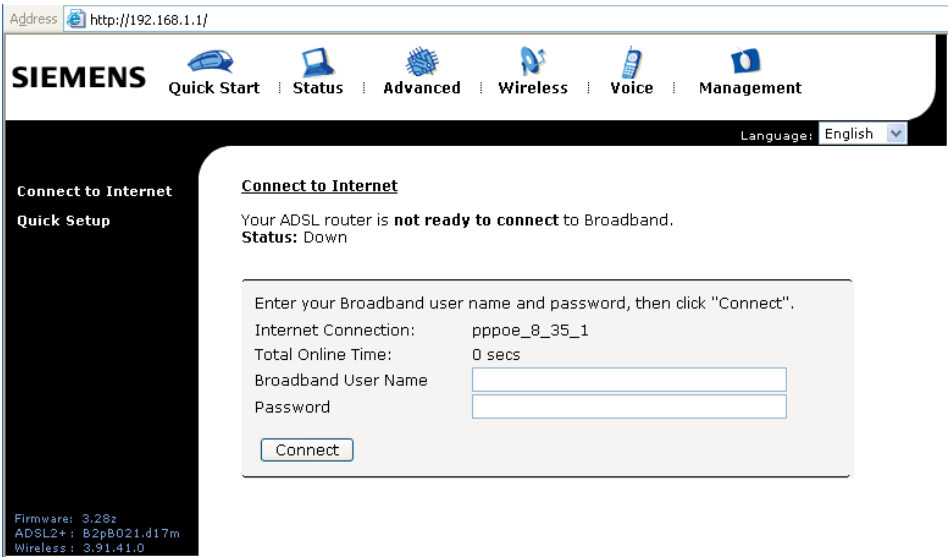






Step 5:
Configure the ADSL Wireless IAD Routers (Internet Access)

1. Start your web browser (e.g. Internet Explorer) and type **192.168.1.1** in the address field of the browser. Press **Enter**. Enter in the field <Username> **admin** and in the field <Password> **admin** as well and click **Next>**.



2. The **Quick Setup** window appears:

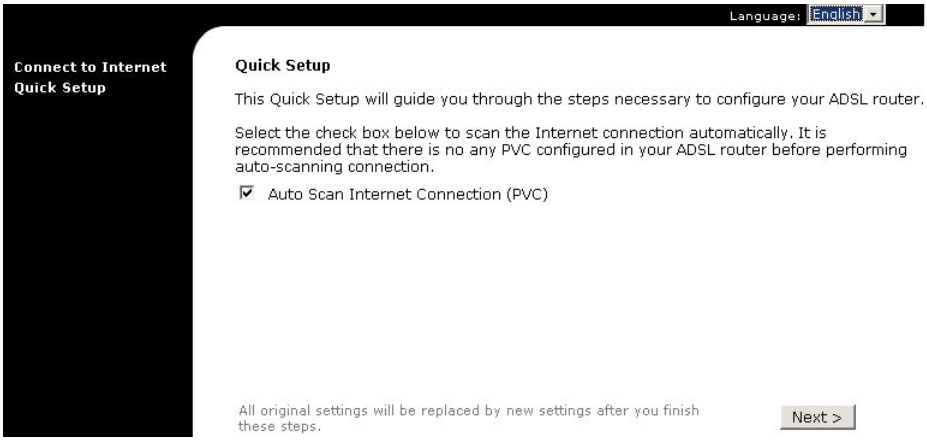
If the **Quick Setup** page is not displayed, please check the TCP/IP settings of your computer (**obtain IP address automatically** must be enabled). Find more information about the configuration in chapter 4.

Enter your **username** and **password**, which you can get from your provider, and click **Connect>**. The connection to the Internet will be established.

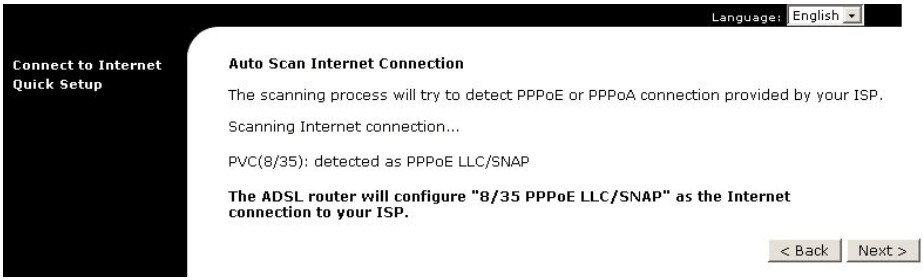
If the connection to the Internet won't be established, please proceed with step **3** and follow the instructions provided in this guide for basic installation.

3. Click on **Quick Setup** on the left side of the window "Quick Start".

The **Quick Setup** window appears:

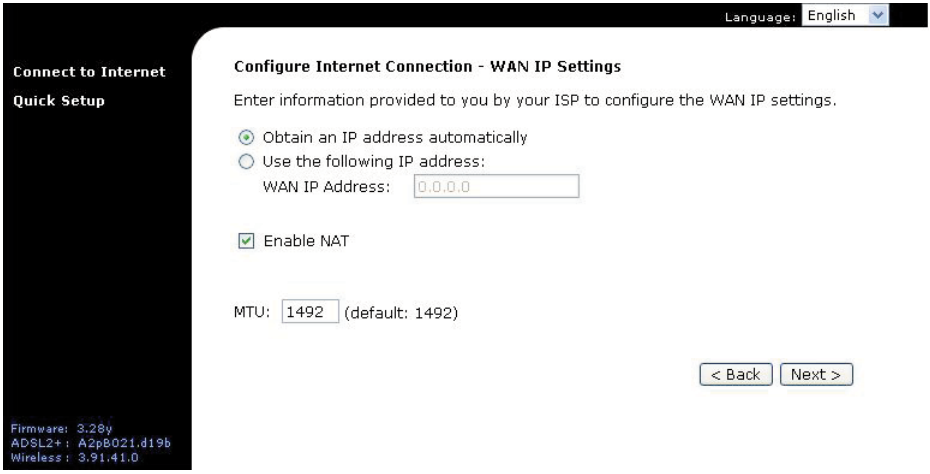

Language: English
Connect to Internet
Quick Setup
Quick Setup
This Quick Setup will guide you through the steps necessary to configure your ADSL router.
Select the check box below to scan the Internet connection automatically. It is recommended that there is no any PVC configured in your ADSL router before performing auto-scanning connection.
Auto Scan Internet Connection (PVC)
All original settings will be replaced by new settings after you finish these steps.
Next >

4. Be sure, the **Auto Scan Internet Connection (PVC)** option is selected.
   Click **Next >**.
   The scanning process will be started and can take several minutes. Afterwards the detected connection will be displayed.

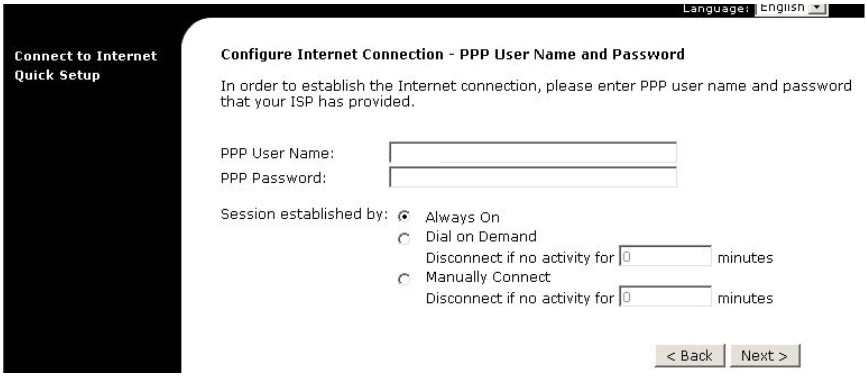

Language: English
Connect to Internet
Quick Setup
Auto Scan Internet Connection
The scanning process will try to detect PPPoE or PPPoA connection provided by your ISP.
Scanning Internet connection...
PVC(8/35): detected as PPPoE LLC/SNAP
The ADSL router will configure "8/35 PPPoE LLC/SNAP" as the Internet connection to your ISP.
< Back
Next >

5. Click **Next >**.

The **Configure Internet Connection - WAN IP Settings** window appears:

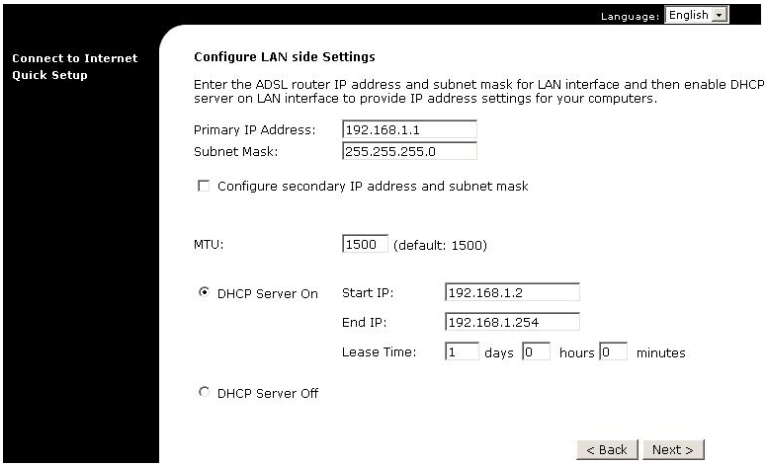

Language: English
Connect to Internet
Quick Setup
Configure Internet Connection - WAN IP Settings
Enter information provided to you by your ISP to configure the WAN IP settings.
Obtain an IP address automatically
Use the following IP address:
WAN IP Address: 0.0.0.0
Enable NAT
MTU: 1492 (default: 1492)
< Back
Next >
Firmware: 3.28y
ADSL2+ : A2pB021.d19b
Wireless : 3.91.41.0

6. Select **Optain an IP address automatically** and **enable NAT**. Type 1492 in the **MTU:** field and click **Next >**.
   The following window appears:

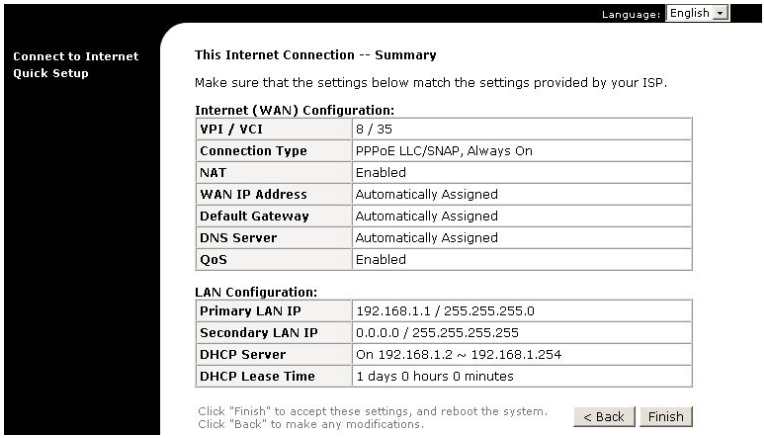

Language: English
Connect to Internet
Quick Setup
Configure Internet Connection - PPP User Name and Password
In order to establish the Internet connection, please enter PPP user name and password that your ISP has provided.
PPP User Name:
PPP Password:
Session established by:
Always On
Dial on Demand
Disconnect if no activity for 0 minutes
Manually Connect
Disconnect if no activity for 0 minutes
< Back
Next >

7. For <PPP User Name> enter the **username** and for <PPP Password> the **password**. You can get this information from your Internet Service Provider. Select **Always On** and click **Next >**.

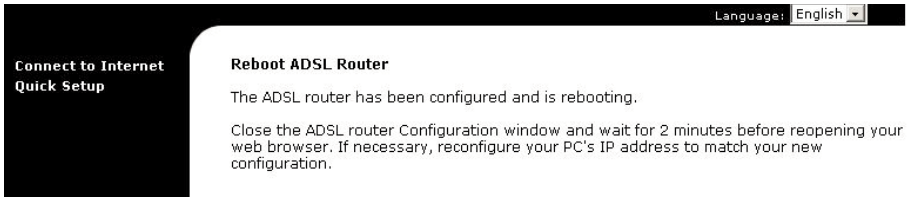
8. Take over the settings displayed in the **Configure LAN side Settings** window and click **Next >**. The LAN configuration will be started.


Language: English
Connect to Internet Quick Setup
Configure LAN side Settings
Enter the ADSL router IP address and subnet mask for LAN interface and then enable DHCP server on LAN interface to provide IP address settings for your computers.
Primary IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0
Configure secondary IP address and subnet mask
MTU: 1500 (default: 1500)
DHCP Server On
Start IP: 192.168.1.2
End IP: 192.168.1.254
Lease Time: 1 days 0 hours 0 minutes
DHCP Server Off
< Back
Next >

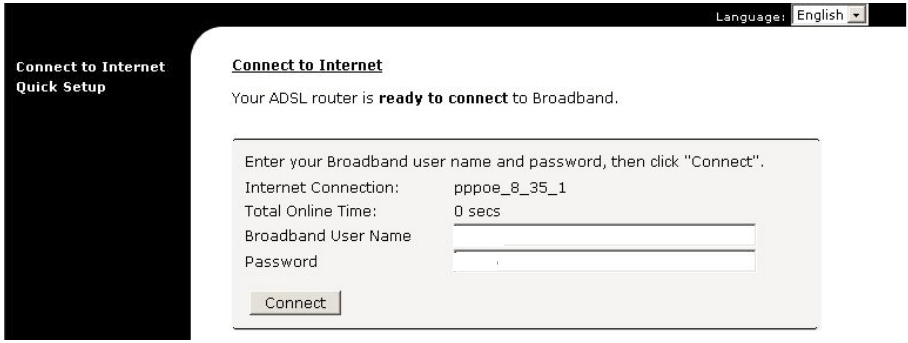
9. The window **This Internet Connection - Summary** shows the WAN and LAN settings you made. The values must match to those values you get from your ISP. Click **Finish** to accept these settings and to terminate the configuration.


Language: English
Connect to Internet Quick Setup
This Internet Connection -- Summary
Make sure that the settings below match the settings provided by your ISP.
Internet (WAN) Configuration:
VPI / VCI 8 / 35
Connection Type PPPoE LLC/SNAP, Always On
NAT Enabled
WAN IP Address Automatically Assigned
Default Gateway Automatically Assigned
DNS Server Automatically Assigned
QoS Enabled
LAN Configuration:
Primary LAN IP 192.168.1.1 / 255.255.255.0
Secondary LAN IP 0.0.0.0 / 255.255.255.255
DHCP Server On 192.168.1.2 ~ 192.168.1.254
DHCP Lease Time 1 days 0 hours 0 minutes
Click "Finish" to accept these settings, and reboot the system.
Click "Back" to make any modifications.
< Back
Finish

10. The installation is done and your ADSL Wireless IAD Router will reboot. This will take about 1- 2 minutes.


Language: English
Connect to Internet
Quick Setup
Reboot ADSL Router
The ADSL router has been configured and is rebooting.
Close the ADSL router Configuration window and wait for 2 minutes before reopening your web browser. If necessary, reconfigure your PC's IP address to match your new configuration.

11. The window **Connect to Internet** appears. If needed, enter the **username** and **password** and click **Connect>**. The connection to the Internet will be established.

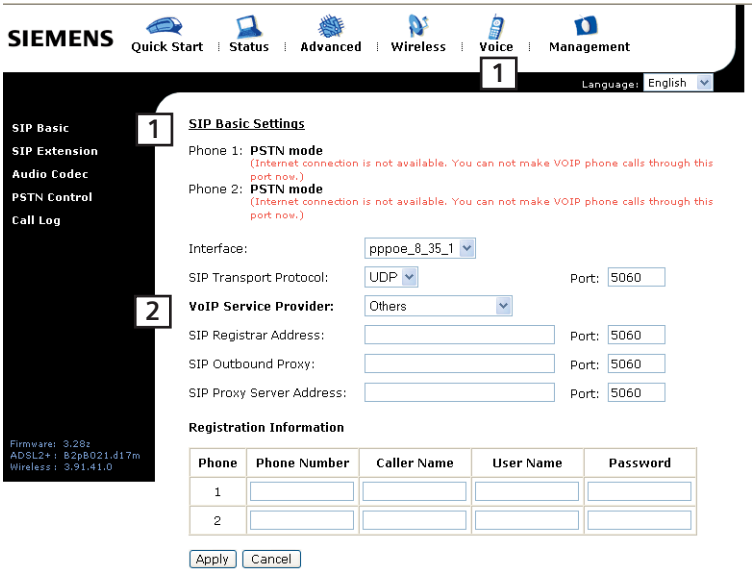


Step 6:
Configuration of the VoIP interface

VoIP (Voice over IP) is a voice service offered by the internet service provider. Here, the voice-signal is transmitted via the internet. VoIP not only offers a realtime voice service, but also connects you to any location across the whole world. VoIP offers you new ways of using your broadband connection. You simply need to connect your telephone via an adapter in order to receive the service.

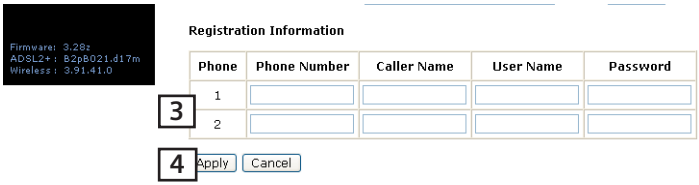
You need to perform the following configuration steps in order to make use of VoIP:

1. Select the **Voice** and then the **SIP Basic**.



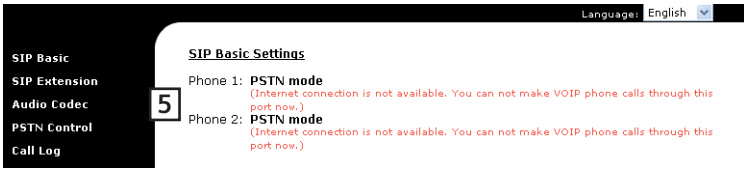
2. Choose a pre-entered SIP provider, or select **Others**.
   Your SIP Provider will give you the necessary details for the configuration:
   - **SIP Registrar Address**: Must always be entered,
   - **SIP Proxy for outgoing connection**: If you receive no details from your SIP provider, this field can remain empty,
   - **SIP Proxy Server Address**: If this is not specified by the SIP provider, enter the same address as for the SIP Registrar.

3. Using the details supplied by your Internet provider, complete the fields **Phone Number**, **User Name** and **Password.**



4. Click on **Apply**, to complete the configuration and set up the connection.

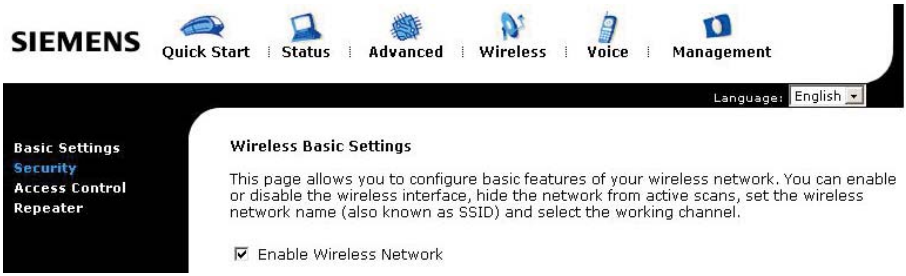
5. The successful call setup is indicated by
   - Status: Your voice service is ready.
   - Telephone 1 VOIP mode
   - Telephone 2 VOIP mode (only if telephone 2 is present and configured under point 3).


Language: English
SIP Basic
SIP Extension
Audio Codec
PSTN Control
Call Log
5
SIP Basic Settings
Phone 1: PSTN mode
(Internet connection is not available. You can not make VOIP phone calls through this port now.)
Phone 2: PSTN mode
(Internet connection is not available. You can not make VOIP phone calls through this port now.)

Step 7:
Configure the Wireless LAN (WLAN) of your ADSL WLAN Routers

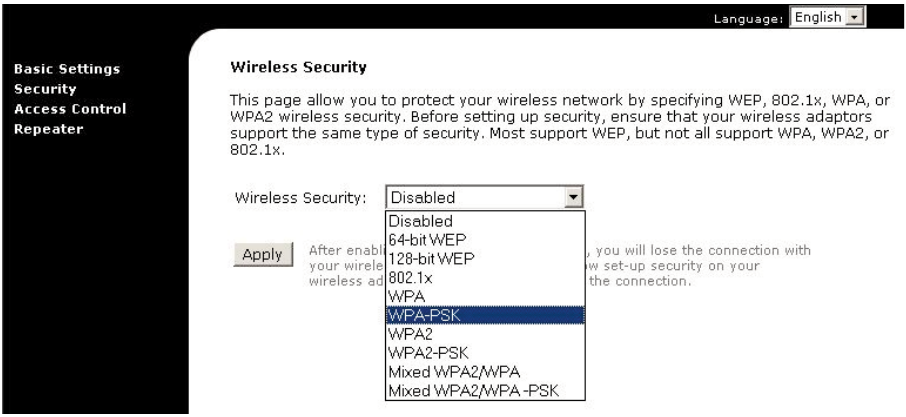
Using radio waves, a wireless network introduces some security risks which are not present in a wired network; an unauthorized third party can intercept transmitted data, gain access to your wireless network. In order to make your wireless network as secure as a wired network you should apply, at least, the following guidelines.
To guarantee that your data is transmitted in a private manner, you should use the highest possible security settings in your WLAN. Make sure that each PC on your wireless network uses the same key as your access point.
The following example illustrates the encryption via '**WPA-PSK**'. Note: you must configure the Access Point first and after that all connected devices.

1. Click **Wireless** and afterwards **Security**. Be sure, the **Enable Wireless Network** option is selected.

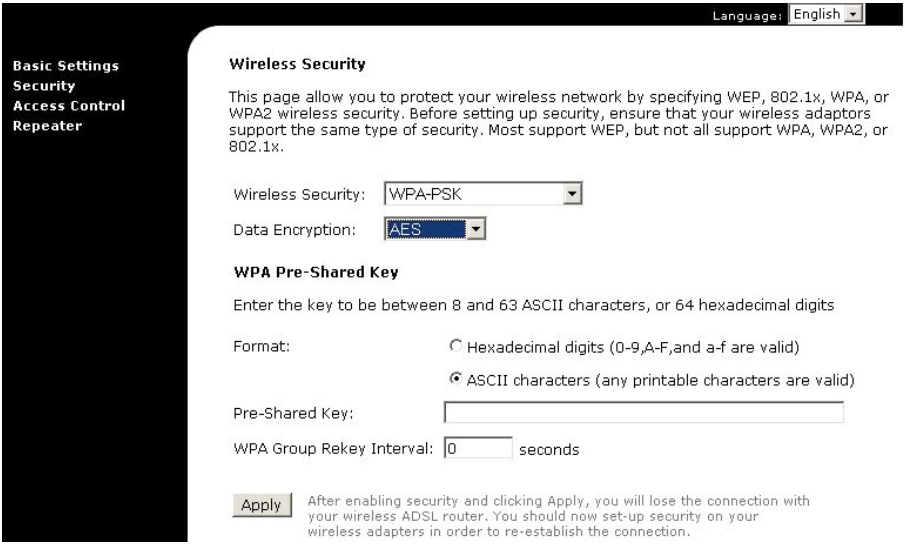

SIEMENS
Quick Start
Status
Advanced
Wireless
Voice
Management
Language: English
Basic Settings
Security
Access Control
Repeater
Wireless Basic Settings
This page allows you to configure basic features of your wireless network. You can enable or disable the wireless interface, hide the network from active scans, set the wireless network name (also known as SSID) and select the working channel.
Enable Wireless Network

2. Select **Security**.

3. Select **Wireless Security: WPA-PSK.**

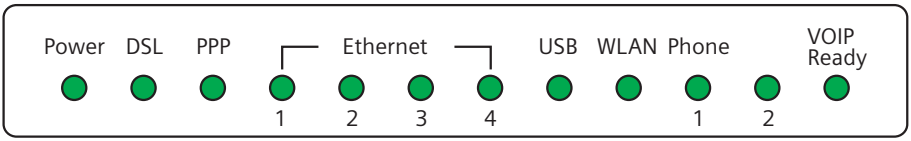


4. Select **Data Encryption: AES** and enter your key (password) in the field **Pre-Shared Key:**. The choosen key must have at least 8 digits, but not more than 64 digits. Use digits from 0 to 9 and letters. Please keep this key safe and be sure you are configuring your Access Point(s) with the same key as your ADSL WLAN Router.
5. Click **Apply**. Afterwards you must configure all devices connected to your ADSL WLAN Router.


Language: English
Basic Settings
Security
Access Control
Repeater
Wireless Security
This page allow you to protect your wireless network by specifying WEP, 802.1x, WPA, or WPA2 wireless security. Before setting up security, ensure that your wireless adaptors support the same type of security. Most support WEP, but not all support WPA, WPA2, or 802.1x.
Wireless Security:
WPA-PSK
Data Encryption:
AES
WPA Pre-Shared Key
Enter the key to be between 8 and 63 ASCII characters, or 64 hexadecimal digits
Format:
Hexadecimal digits (0-9,A-F,and a-f are valid)
ASCII characters (any printable characters are valid)
Pre-Shared Key:
WPA Group Rekey Interval:
0
seconds
Apply
After enabling security and clicking Apply, you will lose the connection with your wireless ADSL router. You should now set-up security on your wireless adapters in order to re-establish the connection.

Step 8:
Front panel system messages

The following illustration shows the front panel of the ADSL IAD Wireless Routers:



LED Indicators

The ADSL IAD Wireless Routers is equipped with LEDs on the front panel as described in the table below (from left to right):

Function	Color	Definition
Power	Off	Power is off
	Solid Green	Power is on and the device operates normally
	Solid Red	Power on self-test in progress
		The device enters the console mode of the boot loader
		Power on self-test failure if the led always stays solid red
	Flash Red	Firmware upgrades in progress
DSL	Off	No DSL signal is detected
	Slow Flash Green	DSL line handshaking in progress
	Fast Flash Green	DSL line training in progress
	Solid Green	DSL line connection is up
PPP	Off	No PPPoA or PPPoE connection
	Solid Green	At least one PPPoA or PPPoE connection is up The users can access the Internet now
Ethernet	Off	No Ethernet signal is detected
	Flash Green	User data going through Ethernet port
	Solid Green	Ethernet interface is ready to work

Function	Color	Definition
USB	Off	No USB signal is detected
	Flash Green	User data going through USB port
	Solid Green	USB interface is ready to work
WLAN	Off	The device is powered off or WLAN is disabled
	Flash Green	User data going through WLAN port
	Solid Green	WLAN interface is ready to work
Phone 1 or 2	Off	The phone is on-hook or in PSTN mode
	Solid Green	VOIP phone call is in use
VOIP Ready	Off	Voice over IP service is not ready. The users only can make PSTN phone calls
	Solid Green	Voice over IP service is ready

Declaration of Conformity

Siemens Switzerland Ltd confirms that this device meets the essential requirements and other relevant regulations laid down in directives 2004/108/EC and 2006/95/EC.

A copy of the 2004/108/EC and 2006/95/EC Declaration of Conformity is available at this internet address: http://www.siemens.ch/broadband